

# From the INTERNATIONAL SEARCHING AUTHORITY

JOHN P. WHITE COOPER & DUNHAM LLP

# **PCT**

Date of Mailing (day/month/year)	1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)	
International application No. International filing date (day/month/year) 06 JUNE 2001  Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK  1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.  Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Faesimile No: (4)-22) 740-14-55 For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.  3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicants request to forward the texts of both the protest and the decision thereon to the designated Offlices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.  4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau indication. Within 19 months from the priority date, demand for international preliminary examination must be filed if the applicant wishes to postopone the entry into the national phase until 30 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offlices which have not		Date of Mailing (day/month/year)	
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Name and mailing address of the ISA/US Authorized officer /	before all designated Offices which have not been elected in the demand of in a later election within 15 months and		
	Name and mailing address of the ISA/US	Authorized officer / .	

Name and mailing address of the ISA/US	Authorized officer
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	HANKYEL TIMOTHY PARK, PH.D.
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0196

From the INTERNATIONAL SEARCHING AUTHORITY

PCT JOHN P. WHITE COOPER & DUNHAM LLP 1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036 NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1) 周四 13 Date of Mailing (day/month/year) 25 OCT 2001 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 60084-A-PCT International filing date International application No (day/month/year) 06 JUNE 2001 PCT/US01/18339 Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK The applicant is hereby notified that the international search report has been established and is transmitted herewith 1. X 2 mc ART 19 RESP. 12.25.01 Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46) The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 3 MO IDS. 1.25.02 34, chemin des Colombettes 1211 Geneva 20, Switzerland C 60084, 601841 Facsimile No.: (41-22) 740.14.85 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. The applicant is reminded of the following: 4. Further action(s): Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II. Authorized officer Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703) 305-3230

HANKYEL TIMOTHY PARK, PH.D

(703) 308-0196 Telephone No

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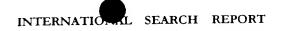


# **PCT**

# INTERNATIONAL SEARCH REPORT

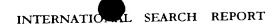
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 60084-A-PCT	FOR FURTHER see Notification of (Form PCT/ISA/2)	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
nternational application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US01/18339	06 JUNE 2001	06 JUNE 2000
Applicant THE TRUSTEES OF COLUMBIA	UNIVERSITY IN THE CITY OF NEW YO	RK
This international search report has be according to Article 18. A copy is be	en prepared by this International Searching Au ing transmitted to the International Bureau.	thority and is transmitted to the applicant
This international search report cons	ists of a total of $\underline{\mathcal{S}}$ sheets.	
	copy of each prior art document cited in this	report.
language in which it was file the international search w Authority (Rule 23.1(b)).  b. With regard to any nucleotid was carried out on the basis contained in the internation filed together with the in furnished subsequently to the statement that the suithe	the international search was carried out on the d, unless otherwise indicated under this item. The carried out on the basis of a translation of the eand/or amino acid sequence disclosed in the international application in written form.  Iternational application in computer readable for this Authority in written form.  Ithis Authority in computer readable form.  Ithis Authority in computer readable form.  Ithis Authority furnished written sequence listing mation recorded in computer readable form is identically in the computer readable form in the computer readable form is identically in the computer readable form in the computer readable form is identically in the computer readable form in the computer readable form is identically in the computer readable form	he international application furnished to this international application, the international search
furnished.	nd unsearchable (See Box I).	
3. Unity of invention is lac		
4. With regard to the title,		
X the text is approved as submitted by the applicant.		
the text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as s	ubmitted by the applicant.	
Box III. The applicant ma	shed, according to Rule 38.2(b), by this Author ay, within one month from the date of mailing o mments to this Authority.	ity as it appears in f this international
6. The figure of the drawings to be	e published with the abstract is Figure No	
as suggested by the appl	licant.	X None of the figures.
because the applicant fai	led to suggest a figure.	<del></del> :
because this figure bette	r characterizes the invention.	



PCT/US01/18339

A. CLAS	SIFICATION OF SUBJECT MATTER		
	C12Q 1/70; C12P 21/06, 21/04; C12N 15/00; A61K	39/00	
According to	485/5, 69.1, 69.7, 69.9, 320.1; 424/192.1 o International Patent Classification (IPC) or to both	national classification and IPC	
	DS SEARCHED		
	ocumentation searched (classification system followed	by classification symbols)	
	435/5, 69.1, 69.7, 69.9, 320.1; 424/192.1		
Documentat	ion searched other than minimum documentation to	the extent that such documents are in	icluded in the fields
searchede			
	lata base consulted during the international search (n ENTS, DIALOG, HIV reverse transcriptase, yeast tw		e, search terms used)
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
Y	US 5,922,856 A (FRITZ et al) 13 July	1999, col. 10, lines 56-67.	1-64
Y	LUBAN et al., Genetic Assay for Multimerization of Retroviral gag Polyproteins, Journal of Virology, Aug. 1992, Vol. 66, No. 8, p. 5157-5160, entire article.		
Y	MORRIS et al., The Thumb Domain of for Activation of HIV Reverse Transcri 1999, Vol. 38, No. 46, pages 15097-1	ptase, Biochemistry, October	1-64
X Furt	l her documents are listed in the continuation of Box (	C. See patent family annex.	
• sp	pecial categories of cited documents:	"T" later document published after the int date and not in conflict with the app	ernational filing date or priority
"A" do	comment defining the general state of the art which is not considered	the principle or theory underlying th	e invention
	be of particular relevance rlier document published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered."	ne claimed invention cannot be ered to involve an inventive step
"I." do	cument which may throw doubts on priority claim(s) or which is	when the document is taken alone	
sp	ted to establish the publication date of another citation or other ecial reason (as specified)	"Y" document of particular relevance; to considered to involve an inventive ste	p when the document is combined
"O" document referring to an oral disclosure, use, exhibition or other with one or more other such documents, such combination being obvious to a person skilled in the art			
"P" do	and the second s		
Date of the actual completion of the international search  Date of mailing of the international search report			
25 OCT 2001			
Box PCT	mailing address of the ISA/US oner of Patents and Trademarks	Authorized officer HANKYEL TIMOTHY PARK.	PHD Juy Willy
-	on, D.C. 20231 No. (703) 305-3230	Telephone No. (703) 308-0196	<i>ν</i> /



PCT/US01/18889

	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category*	Citation of document, with indication, mark appropriate, of the party of	
Y	LEGRAIN et al., Detection of protein-protein interactions using different vectors in the two-hybrid system, Nucleic Acids Research, 1994, Vol. 22, No. 15, pages 3241-3242, entire article.	1-64
Y	FIELDS et al., A novel genetic system to detect protein-protein interactions, Nature, July 1989, Vol. 340, pages 245-246, see entire article.	1-64

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no used to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are societed by the international Buresu after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A seplacement shoet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement about must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate; in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.



## From the INTERNATIONAL SEARCHING AUTHORITY

To: JOHN P. WHITE COOPER & DUNHAM LLP 1185 AVENUE OF THE AMERICAS	PCT	
NEW YORK, NY 10086	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION	
	(PCT Rule 44.1)	
	Date of Mailing (day/month/year)	
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below	
60084-A-PCT	FOR FORTHER ACTION See planging to 1	
International application No.	International filing date (day/month/year) 06 JUNE 2001	
PCT/US01/18339	06 JUNE 2001	
Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE	CITY OF NEW YORK	
1. X The applicant is hereby notified that the internation	al search report has been established and is transmitted herewith.	
Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):		
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.		
Where? Directly to the International Bureau of WIPO  34, chemin des Colombettes  1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35		
For more detailed instructions, see the notes on		
2. The applicant is hereby notified that no internation Article 17(2)(a) to that effect is transmitted herewit	al search report will be established and that the declaration under th.	
5. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.		
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.		
4. Further action(s): The applicant is reminded of the following:		
If the applicant wishes to avoid or postpone publication priority claim, must reach the International Bureau a completion of the technical preparations for international preparations.		
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).		
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.		

Name and mailing address of the ISA/US	Authorized officer /
Commissioner of Patents and Trademarks Box PCT	HANKYEL TIMOTHY PARK, PH.D
Washington, D.C. 20231  Facsimile No. (703) 305-3230	Telephone No. (703) 808-0196